

DISCOVER-AQ

HSRL Data Summary

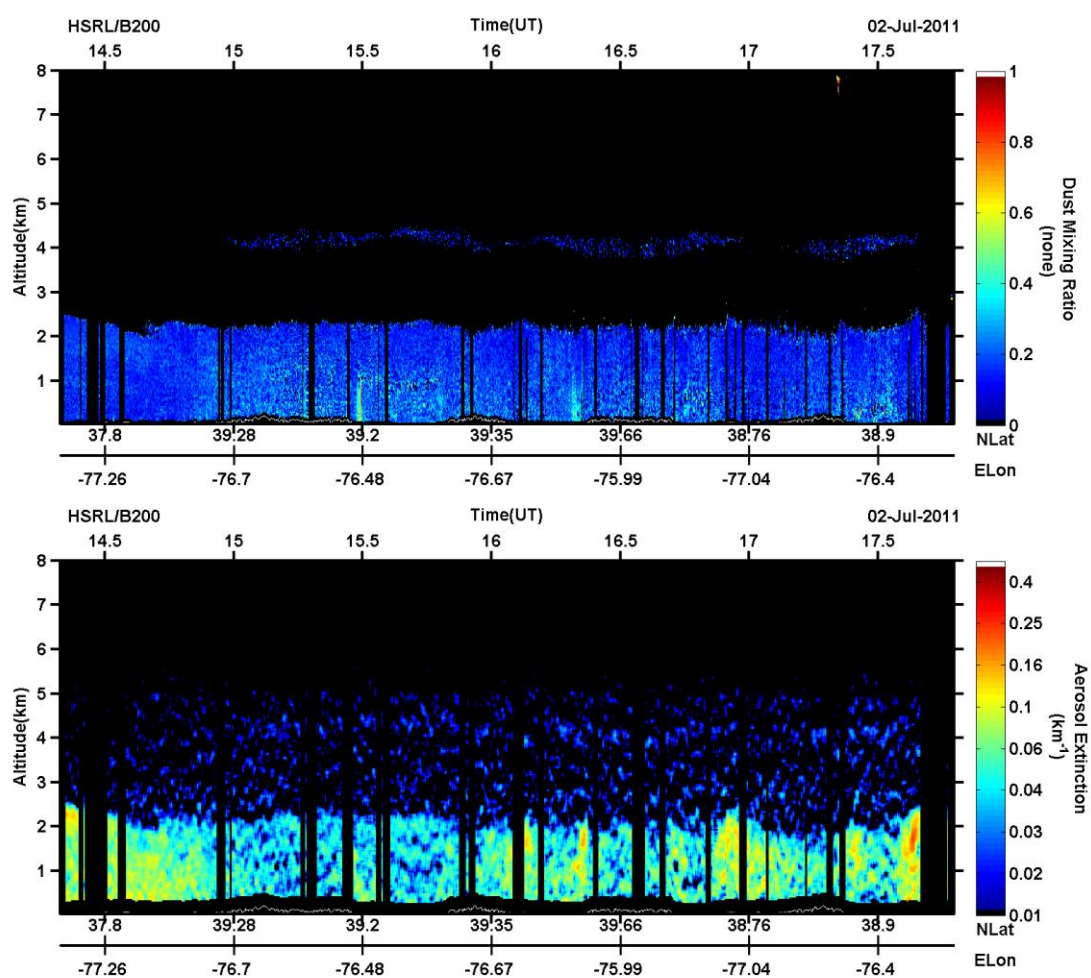
FLIGHT: Morning science flight (1 of 2)

DATE: July 2, 2011

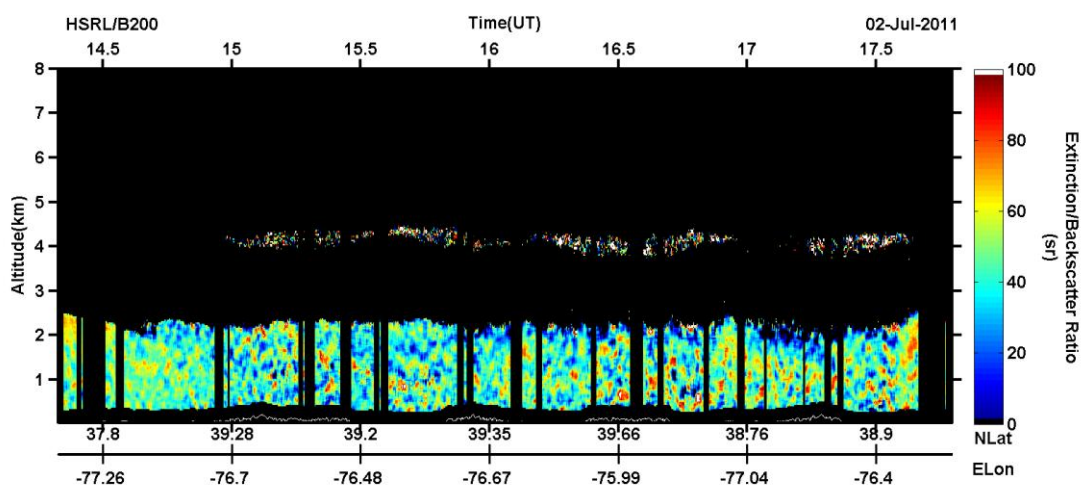
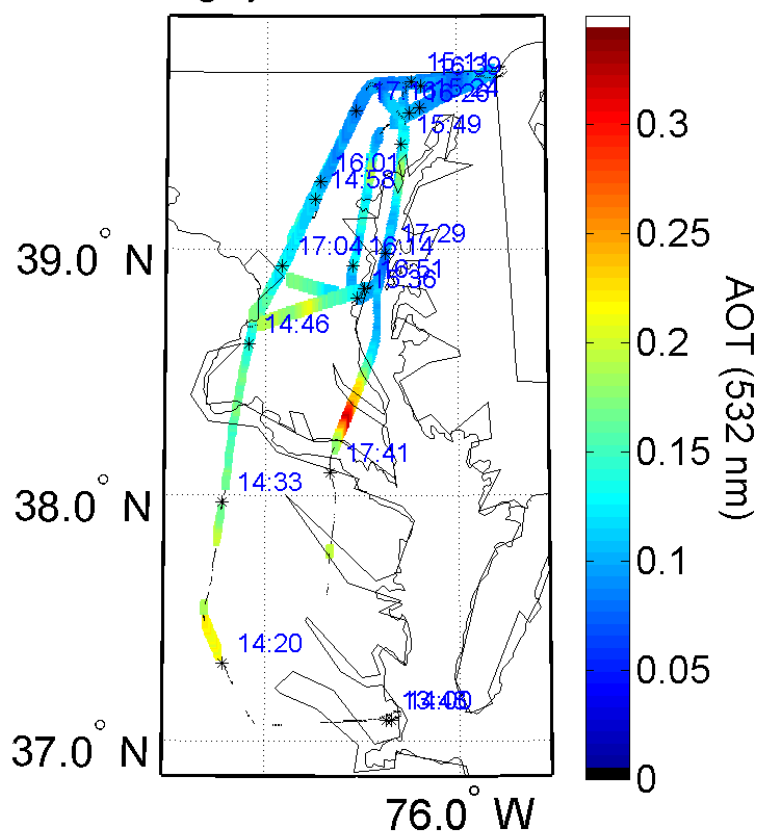
DURATION: 4.0 hours

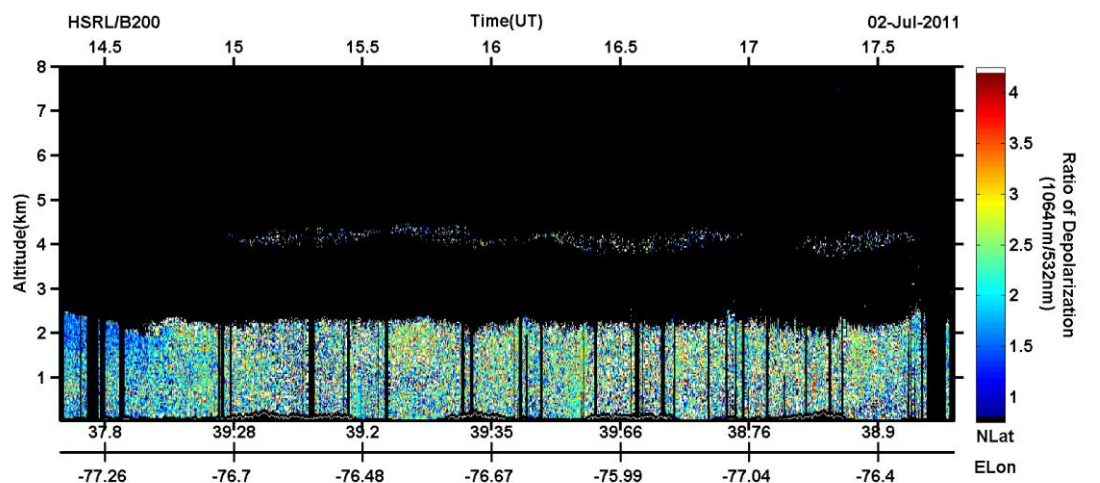
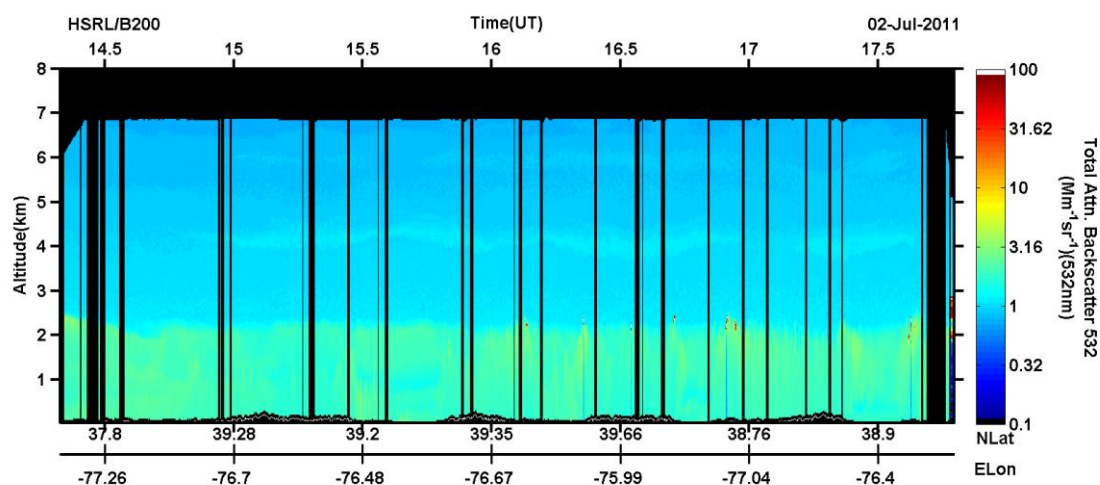
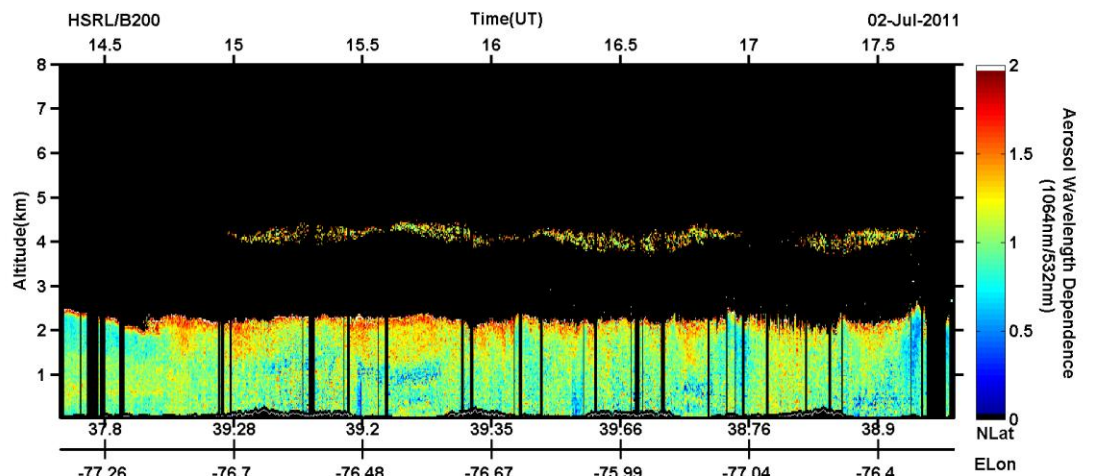
SUMMARY: HSRL operated nominally with no issues. Conditions were generally cloud free along our flight path with a well mixed homogeneous boundary layer. HSRL is ready for the next flight.

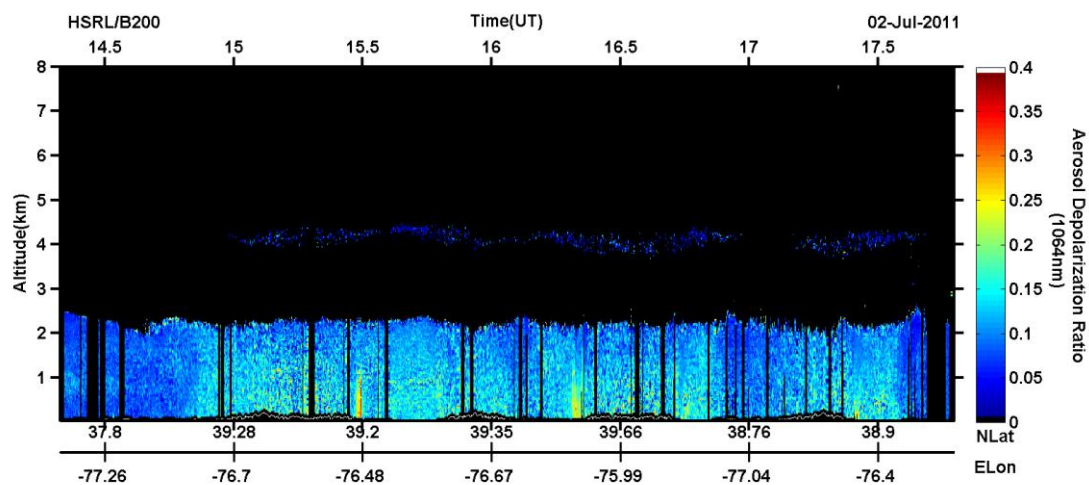
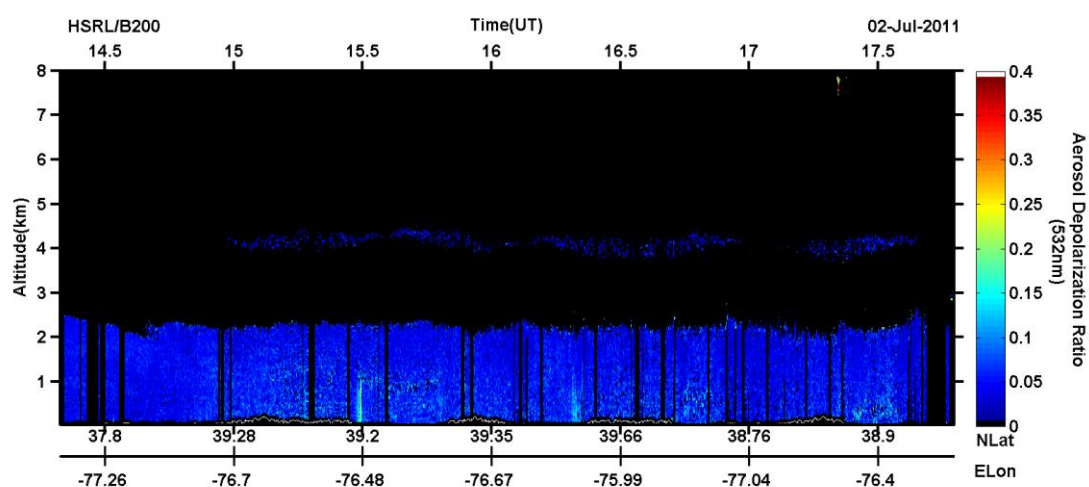
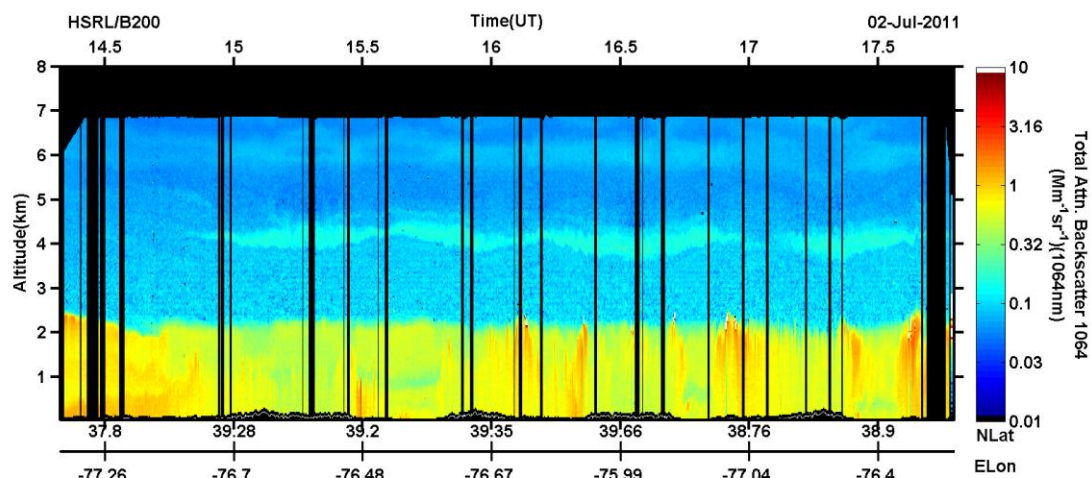
SUMMARY PLOTS:

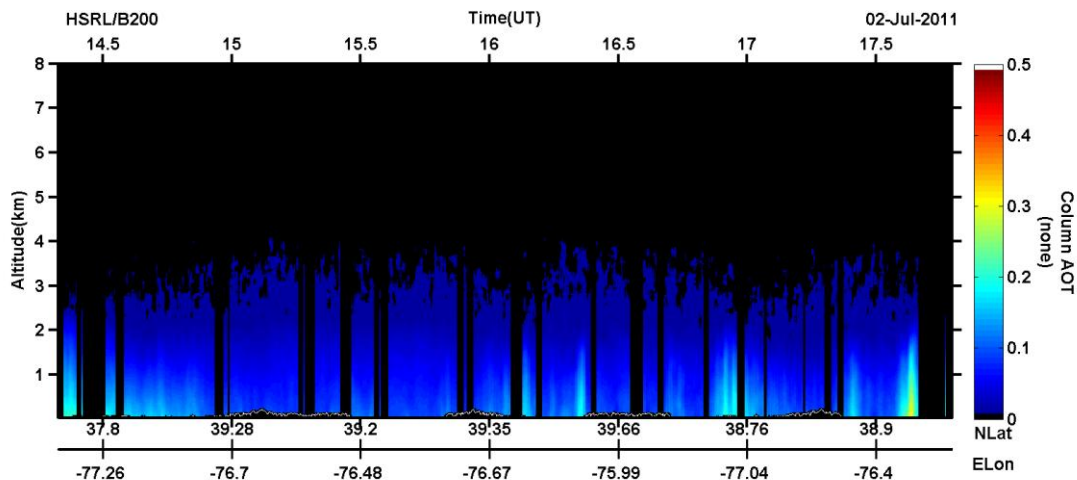
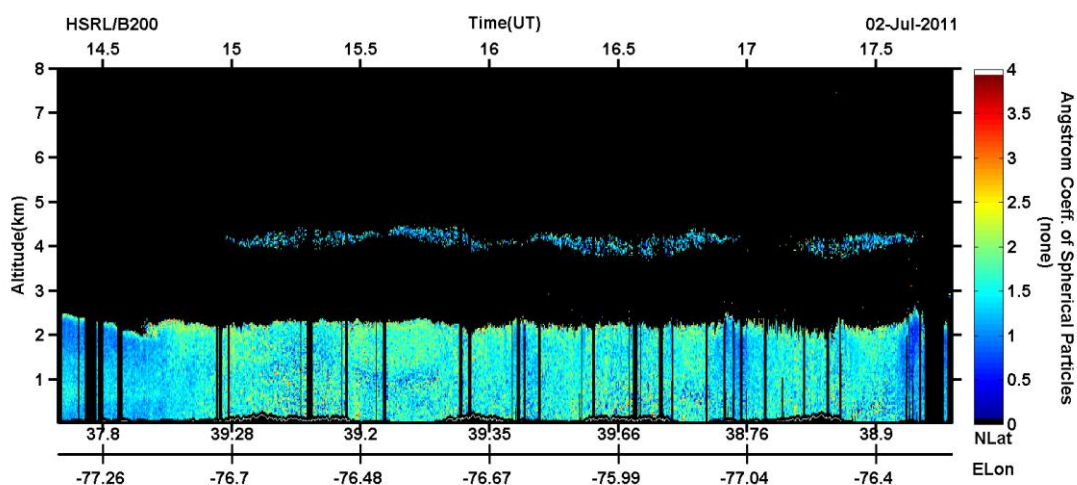
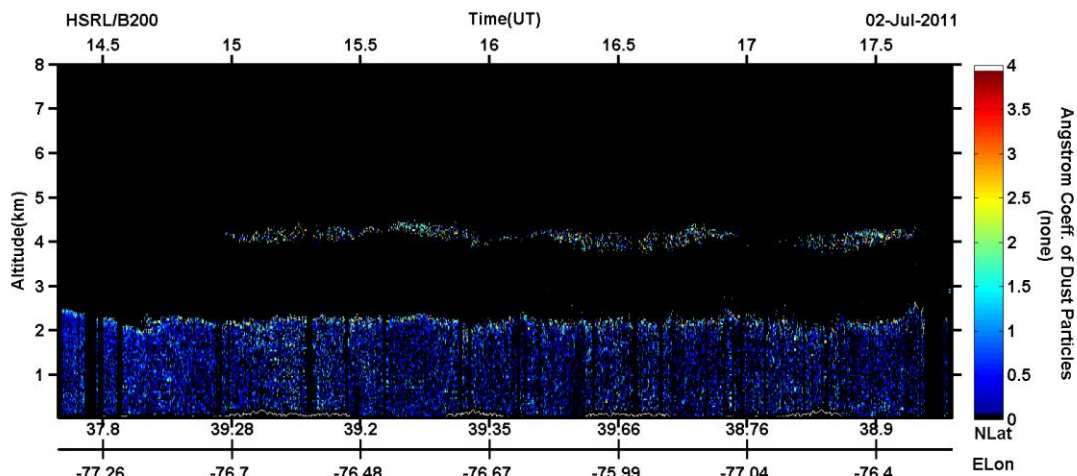


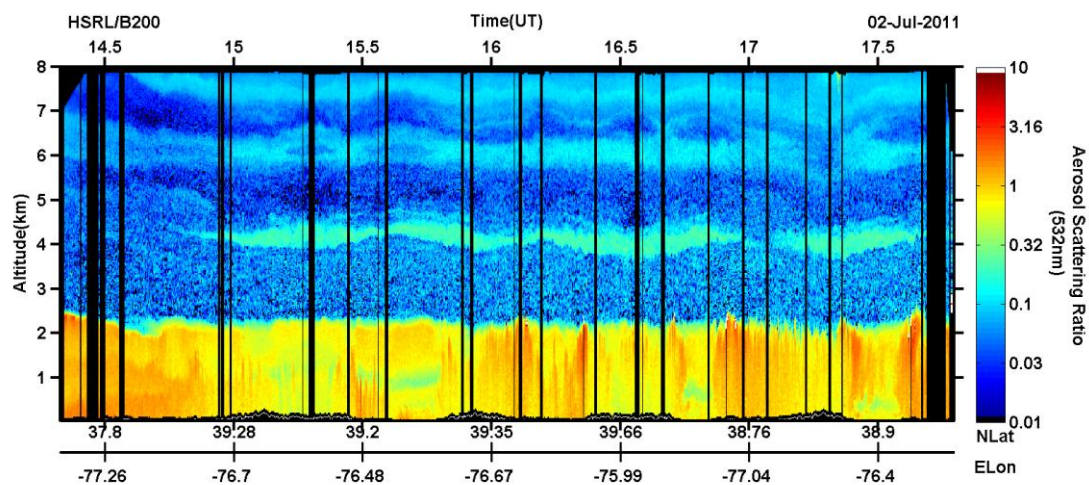
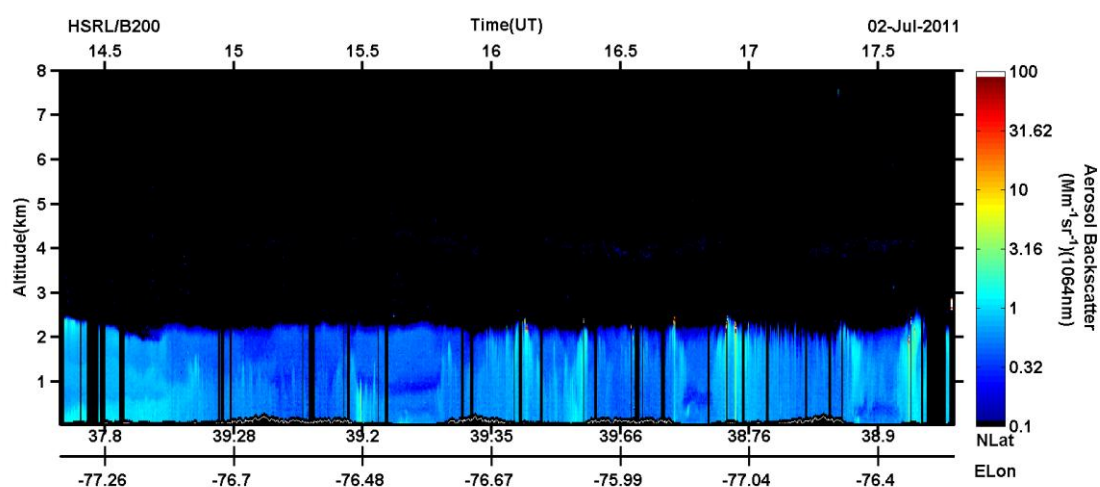
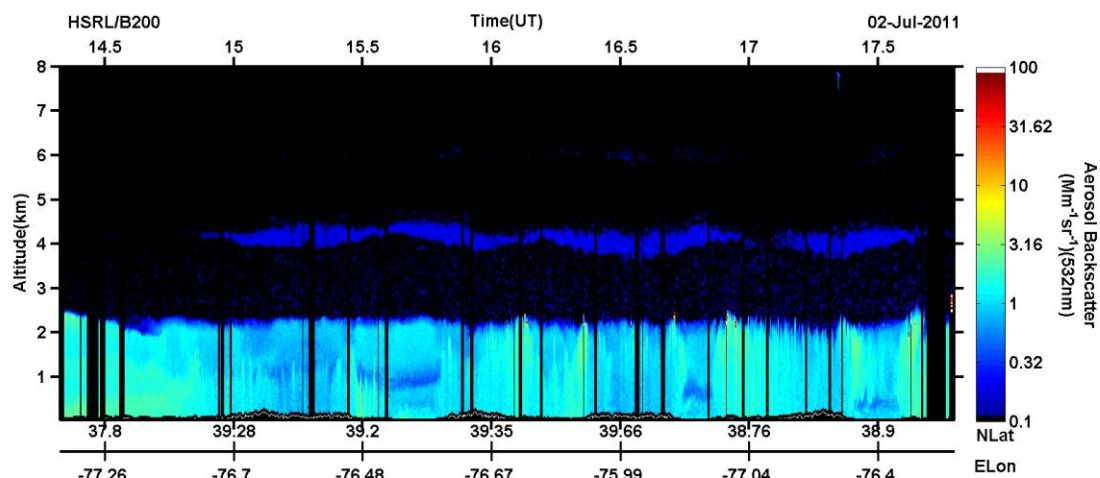
NASA Langley HSRL/B200 02-Jul-2011

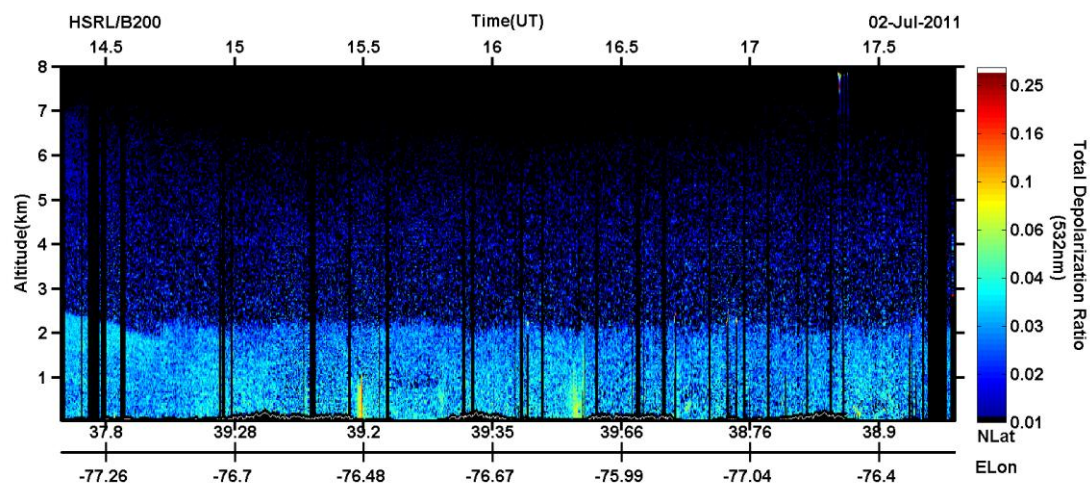
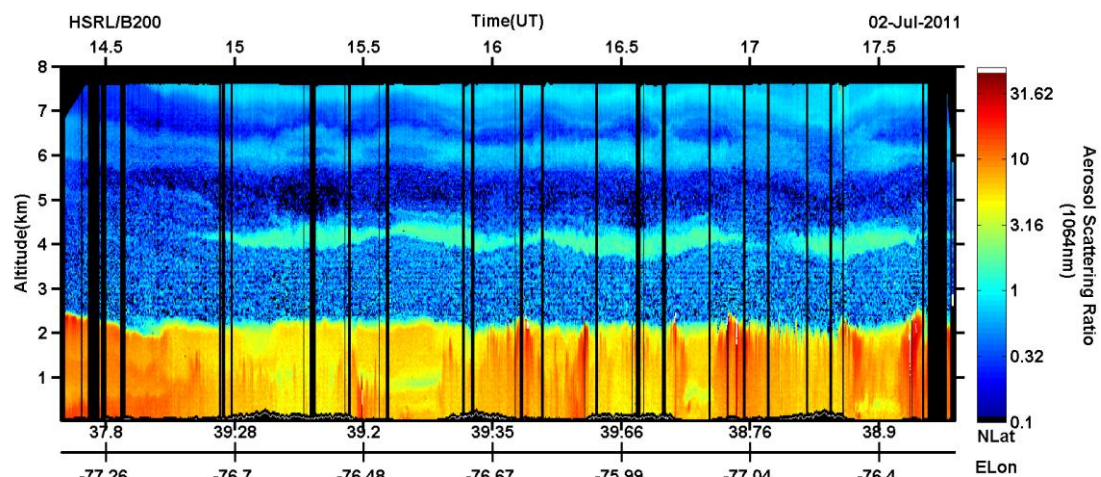
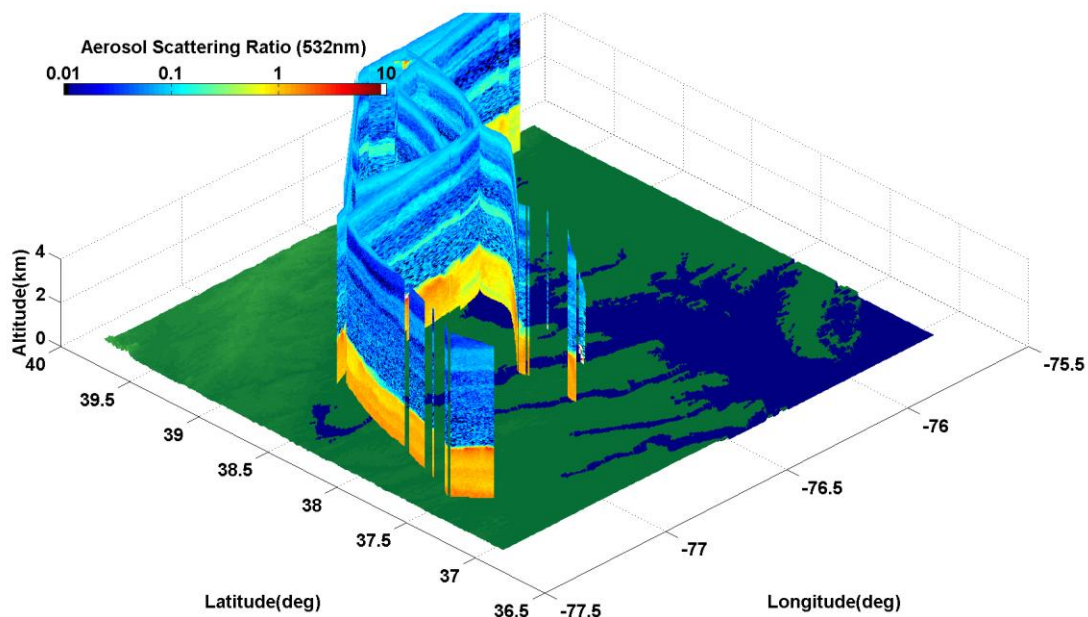












FLIGHT: Afternoon science flight (2 of 2)

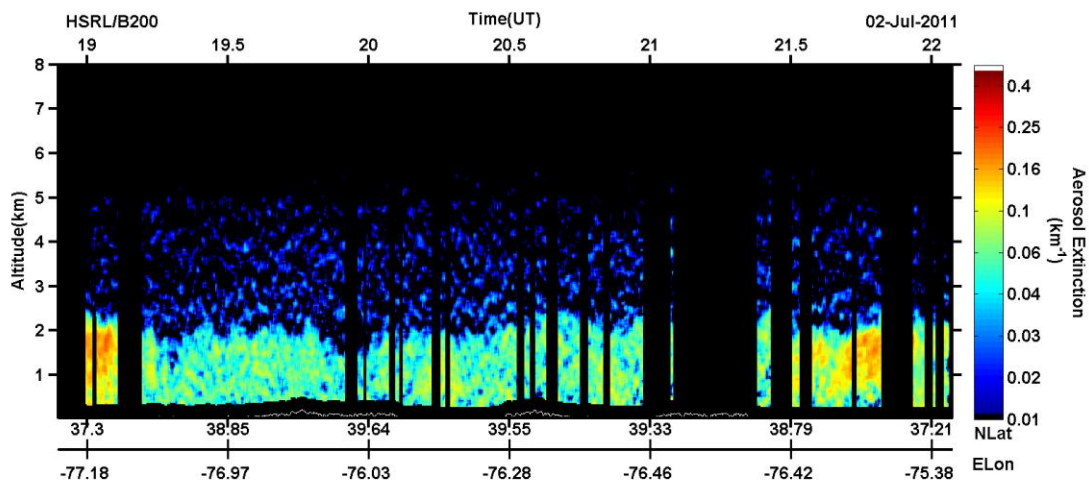
DATE: July 2, 2011

DURATION: 3.6 hours

SUMMARY: HSRL operated nominally with no issues. As expected, we encountered quite a bit more cloud cover compared with the morning flight. The cirrus level was typically just above our altitude at the beginning of the flight but then moved underneath us towards the end of the flight. There seemed to be a dark gray/brown layer at our altitude and just above. Unfortunately, there was not really a good altitude to drop to since the cloud levels were changing, and there were military aircraft operating between 21,000 and 25,000 feet that we had to avoid. We spent the flight at 26,000 feet.

Because we were able to cut the flight a bit short, and because the Patuxent restricted area was not in use today for the holiday weekend, we were able to take a straight path down the middle of the Chesapeake Bay to look at conditions over the water.

SUMMARY PLOTS:



NASA Langley HSRL/B200 02-Jul-2011

